Retevis RA79

Retevis RA79 Walkie Talkie User Manual

Brand: Retevis

Model: RA79

1. INTRODUCTION

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your Retevis RA79 Dual Band Ham Radio. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

Figure 1: Retevis RA79 Walkie Talkies with Speaker Microphones

2. SETUP

2.1. What's in the Box

Verify that all items are present in the package:

- 2x RA79 Radio Body & Antenna
- 2 x 1400mAh Battery & Speaker Microphone
- 2 x USB Desktop Charger
- 2 x Belt Clip & Sling
- User Manual

Figure 2: Package Contents

2.2. Charging the Battery

The RA79 comes with a 1400mAh rechargeable Li-ion battery. Before first use, fully charge the battery. The radio supports USB-C charging for convenience.

1. Connect the USB desktop charger to a power source (USB adapter, power bank, PC, or vehicle charging port).
2. Place the RA79 radio into the charging cradle.
3. The indicator light on the charger will show charging status.

Figure 3: USB Type-C Charging Options

A 1400mAh rechargeable Li-ion battery is included, offering extended standby and usage time. Ensure the battery is properly seated before use.

Figure 4: 1400mAh Li-ion Battery

2.3. Attaching Accessories

Attach the antenna by screwing it clockwise onto the connector at the top of the radio until secure. Attach the speaker microphone by plugging its dual-pin connector into the side port of the radio.

Figure 5: Speaker Microphone Connection

3. OPERATING INSTRUCTIONS

3.1. Basic Operation

To power on/off the radio, rotate the power/volume knob clockwise/counter-clockwise. Adjust volume by rotating the same knob. Press and hold the PTT (Push-to-Talk) button on the side to transmit, and release to receive.

3.2. Frequency Modes (VFO & Channel)

The RA79 supports both VFO (Variable Frequency Oscillator) mode for manual frequency entry and Channel mode for pre-programmed frequencies.
In VFO mode, you can manually edit frequencies and CTCSS/DCS codes directly from the keypad, without needing a computer. This allows for flexible on-the-fly adjustments.

Convenient to communicate

HAM RADIO WITH SPEAKER MICROPHONE

Figure 6: VFO Function for Manual Frequency Entry

The radio features a clear LCD display that shows current frequencies, battery status, and other operational indicators.

PAIR ALL CHANNELS

Figure 7: LCD Display

3.3. Advanced Features

3.3.1. Easy Pairing

The RA79 offers quick pairing functionality. You can search for frequencies and CTCSS/DCS of other two-way radios and display them on the LCD screen. It also supports wireless pairing with multiple same-model walkie talkies by pressing PTT + PF2 key.

Figure 8: Pair One Channel Function

Figure 9: Pair All Channels Function

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Video 1: Demonstration of RA79 One-key Pairing Function.

3.3.2. AM/FM Radio & NOAA Weather Alarm

The RA79 supports AM/FM radio reception, including AM aviation receiving. It also features NOAA Weather Alarm to keep you informed about severe weather conditions.

Figure 10: AM Aviation Receiving

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Video 2: Demonstration of RA79 FM radio function.

3.3.3. Emergency Alarm

In case of an emergency, the RA79 features an emergency alarm function to alert others to your situation.

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Video 3: Demonstration of RA79 emergency alarm function.

3.3.4. VOX Hands-free Operation

The VOX (Voice Operated Exchange) function allows for hands-free communication, activating transmission when it detects your voice. This is useful when your hands are occupied.

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Video 4: Demonstration of RA79 VFO mode and VOX function.

3.3.5. 10 Meter Ham Radio Band & SSB

The RA79 supports the 10 meter ham radio band, offering extended communication range. It also supports SSB (Single Sideband) modulation for clearer long-distance communication.

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Video 5: Demonstration of RA79 10 meter ham radio band functionality.

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Video 6: Demonstration of RA79 SSB 10 Meter functionality.

3.3.6. Programming and Firmware Update

The RA79 supports CHIRP & keypad programming. CHIRP is compatible with Windows XP/7/8/10/11 systems, allowing for detailed data editing. Firmware can also be updated via a browser.

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Video 7: Instructions on how to edit RA79 ham radio data.

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Video 8: Demonstration of RA79 firmware flashing with a browser.

4. MAINTENANCE

4.1. Battery Care

To prolong battery life, avoid overcharging and completely discharging the battery. Store the radio and battery in a cool, dry place when not in use for extended periods.

4.2. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before charging or using.

4.3. Storage

Store the radio in a clean, dry environment away from direct sunlight, extreme temperatures, and corrosive materials.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Low or dead battery.	Charge the battery fully.
Cannot transmit or receive.	Incorrect frequency/channel.	Verify frequency and CTCSS/DCS settings.
Poor audio quality.	Low signal strength or high squelch level.	Adjust squelch level (0-9). Move closer to the other radio.

Problem	Possible Cause	Solution
Keypad/buttons unresponsive.	Keypad lock activated.	Refer to the manual for keypad unlock procedure.

6. SPECIFICATIONS

Feature	Detail
Item Weight	7.9 ounces
Product Dimensions	1.48 x 2.36 x 4.53 inches
Item model number	RA79
Batteries	2 Lithium Ion batteries required. (included)
Display Type	LCD
Color	Black
Number of Channels	200
Frequency Range	Dual Band
Talking Range Maximum	5 Kilometer
Water Resistance Level	Not Water Resistant

7. WARRANTY AND SUPPORT

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. A 30-day no-reason return policy is also available. Beyond the warranty period, maintenance service is offered, with buyers responsible for associated costs.

For any inquiries or support, please contact Retevis customer service on Amazon. They aim to reply within 12 hours.

For more information and resources, visit the official Retevis Store: Retevis Store on Amazon.